### "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041211

ACC NR AP6008090  determine the number of hydroperoxide molecules united with one molecule of copper stearate in the complex (n = 2), as well as the rate constant of the decomposition stearate in the complex (n = 2), as well as the rate constant of complex formation.
determine the number of hydroperoxide molecules united with one molecule of copper
grearate in the complex (n-# 2), as well as the late constant
of the complex into free radicals, and the equilibrium constant of complex formation.  It was shown that the introduction of copper stearate into oxidizing n-decane accel-
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stearate is one of the causes of the observed retarding effects of copper salts.  [VS]
Orig. art. has: 5 figures.
SUB CODE: 21 SUBM DATE: 04Dec64/ ORIG REF: 003/ OTH REF: 003/ ATD PRESS:
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L 23402-66

ACC NR: AP6014008

SOURCE CODE: UR/0219/65/06/007/0102/0104

AUTHOR: Kaplum, N. A.; Dronova, L. M.; Belich, Ye. M.—Belich, E. M.; Emanuel, N. M. (Professor; Corresponding member AN, SSSR); Parin, V. V. (Active member AMN SSSR)

ORG: Department of Chemical and Biological Processes /headed by Corresponding member AN SSSR, Professor N. M. Emanuel'/, Institute of Chemical Physics /directed by Academician N. N. Semenov/, AN SSSR (Otdel khimicheskikh i biologicheskikh protsessov Instituta khimicheskoy fiziki AN SSSR); Department of Balneological Physiotherapy /headed by Corresponding member AMN SSSR, Professor A. N. Obresov/, Central Scientific Research Institute of Health Resorts and Physiotherapy /directed by Cardidate of medical sciences G. N. Pospelova/, Ministry of Public Health Services, SSSR, Moscow (Otdel bal'neofizioterapii Tsentral'nogo nauchno-issledovatel'skogo instituta kurortologii i fizioterapii Ministerstva zdravookhraneniya SSSR)

TITIE: Effect of direct current on the development of transplanted leukosis in mice

SOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 60, no. 7, 1965, 102-104

TOPIC TAGS: bone marrow, mouse, electrophysiology, direct current, hemitopoiesis

ABSTRACT: Investigations were conducted to determine the effect of different doses of direct currents on the development of leukosis. Eighty male mice with transplanted La leukosis were under observation. The weight of the

Card 1/2

IDC: 615.843-03: 616-006.446-092.9+616-006.446-035.8437-092.9

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ACC NR. AP6014008

spleen, the number of leukocytes and hemocytoblasts in one square millimeter of blood, and the porcent content of hemocytoblasts in the bone marrow of controls, and in the animals to which direct current was applied were studied. The current was applied to the experimental mice by placing electrodes on both shaved sides of the animals. The electrode placed on the right side was connected to the positive pole of a galvanizing apparatus; the electrod: placed on the left side of the animals was connected to the negative pole. The current was applied at different intensities for various periods. Pour series of experiments were carried out. The animals were sacrificed at different times. Examinations established that a direct current not only did not increase the weight of the spleen, but in some cases decreased it; it practically caused no change in the number of leukocytes and hemocytoblasts in the blood; neither did it have any effect on the number of hemocytoblasts in bone marrow. It was thus established that direct current, regardless of the dosage applied, has no effect on the development of transplanted lenkosis. This paper was presented by V. V. Parin, Active member AMN SSSR. The authors thank N. V. Puchkov and N. A. Vinogradov for assistance in the work. Orig. art. has:

SUB CODE: 06 / SUEM DATE: 10Dec63 / ORIG REF: 008

Card 2/2 20

#### "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041211

1-22902-66 EWT(m) ACC NRI AP5025869 SOURCE CODE: UR/0020/65/164/004/0934/0936 AUTHOR: Burlakova, Ye. B.; Gaintseve, V. D.; Slepukhine, L. V.; Khrapova, N. G.; Emanueli, N. M. (Corresponding Member AN SSER) ORG: none 19,5 TITLE: Relationship between the radiation protective and antitumoral action of inhibitor-antioxidants SOURCE: AN SSSR. Doklady, v. 164, no. 4, 1965, 934-936 TOPIC TAGS: radiobiology, radiation protection, radiation sickness, radiation biologic effect, carcinoma, alkylphenol, phenol, arine, organic nitrogen compound, mouse The radiation protective, antitumorigenic and radiosensitizing properties of a number of inhibitors were determined. Frotection against radiation shown by 4-methyl-2,6-diteritery butylphonol, as determined by survival of mice after exposure to 550 r radiation, was maximum at injections of C = 50 mg/kg. At C = 100 mg/kg = Cnegative the mortality rate equaled that of the control; desages in excess of Chegative were considered radiosensitizing. The behavior of all the inhibitors studied -- polyphenols, substituted hydroxypyridines, Card 1/2

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L 31196-66 EWP(j)/EWI(m) RM SOURCE CODE: UR/0216/66/000/002/0183/0196. ACC NR: AP6022567 AUTHOR: Emanuel, N. M.; Burlakova, Ye. B.; Kruglyakova, K. Ye.; Sapezhinskiy, I. I. ORG: Institute of Physical Chemistry, AN SSSR, Moscow (Institut khimichemkoy fisiki AN SSSR) TITLE: Studies on free-radical reactions following irradiation of model systems and the role of radicals in radiation injury /4 SOURCE: AN SSSR. Izvestiya. Seriya biologicheskaya, no. 2, 1966, 183-196 TOPIC TAGS: free radical, irradiation effect, radiation injury, recombination reaction, protein, free radical stabilization, electron spin resonance, exchange reaction, DNA Oxidative recombination of the radicals of irradiated proteins ABSTRACT: CARGE process: peroxide radical formation and disproportionation (during which chemoluminoscence arises). Analysis of electron spin resonance and oxygen absorption by irradiated proteins reveals that the reaction proceeds through a transfer of free valence. The authors concluded from the results of the electron spin resonance studies and chemoluminescence that an exchange reaction is possible between the radicals of irradiated proteins and the inhibitors of free-radical reactions. Free-radical reactions play an important part in radiation-induced DNA degradation. Study of the action of various inhibitors showed that gallic acid, phonylethylamine, and oxypyridine derivatives markedly weakens the effect of irradiation. Experiments on animals indicated that the degree of protection is directly related to the antiradical activity of the inhibitors used in free-radical reactions. Orig. art. has 18 figures and 2 tables. SUB CODE: 06, 20, 07 SUBM DATE: 11Dec65 ORIG REF: 015 UNC. OTILERS ised in free-radical reactions. Orig. art. has: SUB CODE: 06, 20, 07 SUBM DATE: 11Dec65 0915

#### "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041211

L 29185-66 -ACC NR. AP6018848 SOURCE\_CODE: UR/0020/65/163/002/0483/0485 AUTHOR: Emanual! N. M. (Corresponding member AN SSSR); Vermel! I. A.; Kruglyak, S. A.; Dronova, L. H.; Ostrovskaya, L. A. ORG: Institute of Chemical Physics, AN SSSR (Institut khimichenkoy fiziki AN SSSR) TITLE: Antitumor properties of powerful chemical mutagens (nitrosoures lerivatives) SOURCE: AN SSSR. Doklady, v. 163, no. 2, 1965, 483-485 TOPIC TAGS: mouse, tumor, chemotherapy, aromatic hydrocarbon ABSTRACT: The authors studied the effect of methyl -, ethyl -, and propyl nitrosoureas (MVU, ENU, and ENU, respectively) on ascitic strains of mouse rumors (Enrlich's carcinoma, sarcoma 37, and sarcoma 180) in leukemic mice (C57BL strain) and on solid rat tumors (sarcoma 45, Walker's carcinosarcomas and sarcoma SSK). Two critoria were used to evaluate the compounds: (1) coefficient of inhibition k, which shows how much more slowly the tumor process develops in experimental animals as compared with the control; (2) percentage of inhibition of tumor growth. The results of the experiments showed that up to 100% inhibition was achieved by all three compounds, but the k values differed. Moreover, MNU and ENU increased the survival time of the animals by 4 days; PNU, by 9 days. Like the polycyclic hydrocarbons, the nitrosourea derivates tested are highly carcinogenic as well as carcinostatic, Orig. art. has: 2 figures. [JPRS] SUB CODE: 06, 07 / SUBM DATE: 02Mar65 / ORIG REF: 005 / OTH REF: 014 Card 1/1

L 37764-66 EWT(1)/T RO/JK ACC NR: AP6028846 SOURCE CODE: UR/0321/66/027/003/0276/0281 (A) AUTHOR: Pavlovskiy, Ye. N. (Deceased); Talyzin, F. F.; Emanuel, N. M.; Val'tseva, I. A.; Pchelkina, A. A.; Yurkova, I. B.

ORG: Institute of Chemical Physics, AN SSSR (Institut khimicheskoy fiziki AN SSSR); Zoological Institute, AN SSSR (Zoologicheskiy institut AN SSSR); First Moscow Medical Institute im. I. M. Sechenov (Pervyy Moskovskiy meditsinskiy institut); Institute im. I. M. Sechenov (Pervyy Moskovskiy meditsinskiy institut); Institute of Epidemiology and Microbiology im. N. F. Gamaleya, AMN SSSR (Institut epidemiologii i mikrobiologii AMN SSSR) TITLE: Neutralizing effect of inhibitors of radical-chain processes (propylgallate), heparin, and hydrocortisone on viper venom SOURCE: Zhurnal obshchey biologii, v. 27, no. 3, 1966, 276-281 TOPIC TAGS: mouse, toxicology, free radical, biologic secretion, drug effect ABSTRACT: Mice were injected subcutaneously with 1 ml of a solution containing 0.02 mg of venom and 3.75 mg of propylgallate (a typical inhibitor of free-radical processes). Some 73% of the experimental mice survived as compared with only 6% of the controls. The survival rate of mice after simultaneous injection of heparin and venom was 63.7% (subcutaneous) and 77.7% (intravenous) as compared with 22.2% of the controls. The subcutaneous injection of venom and hydrocortisone resulted in the death of 5 out of 11 mice as compared with 9 out of 11 control animals. The authors concluded by recommending the use of propylgallate, heparin, or hydrocortisone to treat viper bites only if the specific "antigurza" serum is not available. Safe when administered in therapeutic doses, these drugs can mitigate the effects of severe poisoning by snake venom. Orig. art. has: 1 figure. [JPRS: 36,932] SUB CODE: 06 / SUBM DATE: 02Fab66 / ORIG REF: 025 / OTH REF: 002 Card 1/1 LS

T. 1,0111-66 EWT(m)/EWP(1) ACC NR: AP6013904

(A)

SOURCE CODE: UR/0076/66/040/004/0762/0765

AUTHOR: Vetchinkina, V. N.; Mayzus, Z. K.; Emanuel'. N. M.

B

ORG: Institute of Chemical Physics, Academy of Sciences, SSSR (Institut khimicheskoy fiziki Akademii nauk SSSR)

TITLE: The radical mechanism of phenolloonversion in a hydrocarbon medium

SOURCE: Zhurnal fizicheskoy khimii, v. 40, no. 4, 1966, 762-765

TOPIC TAGS: phenol, hydrocarbon, reaction mechanism, oxidation inhibitor

ABSTRACT: Phenol dissolved in n-decane was heated at 140C in a stream of nitrogen preliminarily purified of oxygen traces, in an attempt to clarify if consumption of the inhibitor without participation of RO2 radicals is related to exidation of the 'nhibitor or represents a parallel reaction requiring no oxygen. Results indicate that the con amption of phenol heated, in an exygen-free hydrocarbon environment is accompanied by the formation of free radicals  $\Lambda$ The radical formation rate constant for phenol in n-decane is given as k=9.6·10-5 1/mol·sec at 140C. The low efficiency of phenol as an inhibitor of the oxidation of the hydrocarbon discussed is ascribed to an interaction between the two. Orig. art. has: 2 formulas and 4 figures.

SUB CODE: 07/ SUBM DATE: 05Jui65/ ORIG REF: 004/ OTH REF: 009 UDC: 541.124/.128

ACC NR. AP60ll656 SOURCE CODE: UR/0020/66/167/003/0579/0582

AUTHOR: Blyumberg, E. A.; Valov, P. I.; Norikov, Yu. D.; Emanuel', N. M.

(Corresponding member AN SSSR)

ORG: Institute of Chemical Physics, Academy of Sciences, SSSR (Institut khimi heskoy fiziki Akademii nauk SSSR)

TITLE: Co-oxidation of unsaturated hydrocarbons and other organic compounds as a method of synthesizing oxides of olefins

SOURCE: AN SSSR. Doklady, v. 167, no. 3, 1966, 579-582

TOPIC TAGS: organic oxide, olefin, aldehyde, methyl ethyl ketone, aromatic hydrocarbon, organic synthetic process

ABSTRACT: The report describes in general terms a procedure for direct derivation of olefin oxides through the cooxidation of unsaturated hydrocarbons and other organic compounds oxidizing more readily than the olefin involved. The process utilizes the active oxygen of peroxide radicals and hydroperoxides which comprise the primary intermediate products of oxidation of organic compounds. Aldehydes, methylethylketone? and alkylaromatic and paraffin hydrocarbons were employed in systems with propylene, isobutylene, and ethylene. Olefin oxides

Cord/2 UDC: 542.91+541.128.2

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L 34092-66 EWT(m)/EWP(j)/T WW/JW/RM ACC NR: AP6012924 SOURCE CO

SOURCE CODE: UR/0020/66/167/005/1105/1108

AUTHOR: Skibida, I.P.; Mayzus, Z.K.; Ivanov, S.K.; Emanuel', N.M. (Corresponding member AN SSSR)

ORG: Institute of Chemical Physics. Academy of Sciences, SSSR (Institut khimicheskoy fiziki Akademii nauk SSSR)

TITLE: Mechanism of the chain propagation reaction in liquid-phase oxidation processes in the presence of salt catalysts and cobalt stearate

SOURCE: AN SSSR. Doklady, v. 167, no. 5, 1966, 1105-1108

TOPIC TAGS: free radical, hydroperoxide, oxidation kinetics, oxidation inhibition, cobalt compound, decane

ABSTRACT: In order to determine whether the products of catalytic oxidation of n-decane formed and consumed by a chain or a molecular mechanism, an inhibitor was introduced into the oxidation reaction, which was already under way. To n-decane oxidized to a certain degree was added cobalt stearate (1.2 x  $10^{-3}$  mole/liter), followed 15 min later by the inhibitor N-phenyl- $\theta$ -naphthylamine or  $\propto$  -naphthol (about 5 x  $10^{-5}$  mole/liter). Following the introduction of the inhibitor, the curves of the accumulation of all the products showed a sharp break, and the products ceased to be formed. This is interpreted as evidence that in the reaction of catalyzed oxidation, alcohols, ketones, and acids are formed and consumed by a chain mechanism. The majority of the oxidation products were found to form directly from

Card 1/2

UDC: 541.128.2

#### L 34092-66

ACC NR: AP6012924

the RO<sub>2</sub> radical. The rates of formation and consumption of all the oxidation products were determined. By comparing the rates of formation of the products and the rates of decomposition of the hydroperoxides, it was shown that in the oxidation of n-decane in the presence of CoSt<sub>2</sub>, in contrast to a noncatalyzed oxidation, the hydroperoxides are not the only primary intermediates; a considerable part of peroxide radicals are converted into alcohols, ketones, and acids by skipping the step of hydroperoxide formation. Orig. art. has: 2 figures and 1 table.

SUB CODE: 07 / SUBM DATE: 12Aug65 / ORIG REF: 008 / OTH REF: 003

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#### "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041211

ACC NR. AP6032114 SOURCE CODE: UR/0301/66/012/005/0452/0455

AUTHOR: Kukushkina, G. V.; Gorbacheva, L. B.; Emanuel', N.

ORG: Institute of Chemical Physics, Academy of Sciences SSSR (Institut khimicheskoy fiziki AN SSSR)

TITLE: Inhibition of the biosynthesis of protein and nucleic acids by phenolic compounds in vivo

SOURCE: Voprosy meditsinskoy khimii, v. 12, no. 5, 1966, 452-455

TOPIC TAGS: biochemistry, biosynthesis, protein synthesis, nucleic acid, nucleic military phenol derivative, metabolic effect, ionole

ABSTRACT: In vivo experiments on mice affected with Erlich ascites tumor and hepatoma XXII showed that the phenol derivatives propylgallate and ionole (4-methyl-2,6-di-tert-butyl-phenol) inhibited protein and nucleic acid synthesis in some organs and tissues. Propylgallate did not affect protein biosynthesis in normal kidney tissue but was effective against cancerous tissue. A 200 mg/kg dose of ionole suppressed uptake of C14 labeled amino acids almost completely. Further experiments showed that the cellular nucleic acid fractions from cancerous cells were the most sensitive to the action of these compounds. [WA-50; C3E No: 12]

06/ SUBM DATE: 19Nov64/ ORIG REF: 014/ OTH REF: 002/ UDC: 615.778.1-092:612.015.348-064+616.015.348.014.46-064.65.778 SUB CODE: Card

#### "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041211

ACC NR: AP6032585 SOURCE CODE: UR/0062/66/000/008/1334/1339

AUTHOR: Valov, P. I.; Blyumberg, E. A.; Emanuel', N. M.

ORG: Institute of Chemical Physics, Academy of Sciences, SSSR (Institut khimicheskoy fiziki Akademii nauk SSSR)

TITLE: Kinetics and mechanism of the combined oxidation of propylene

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 2, 1966,

TOPIC TAGS: combustion modifier, oxidation mechanism, free radical, oxidation inhibitor, oxidation kintice, acetaldeligate, olifin

ABSTRACT: A study has been made of the kinetics and mechanism of the combined oxidation of an olefin and an aldehyde. This reaction was previously shown to be a step common to the mechanisms of oxidation of unsaturated hydrocarbons and of the combined oxidation of olefins and organic compounds of various classes. The reagents used were acetaldehyde, propylene, and air. The reaction was carried out in a special stainless steel autoclave at 70-80C and 50 atm. Under these conditions the reaction proceeds in the liquid phase. Reaction products were subjected to chemical and gas-liquid chromatographic analysis. It was

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UDC: 541.124+542.943

### ACC NR: AP6032585

found that propylene oxide and acetic acid are the end products of the reaction; propylene glycol monoacetate is formed along with the propylene oxide. This was confirmed by control experiments in which some propylene oxide was added to the initial reagents. A reaction mechanism was postulated for the formation of propylene oxide:

$$CH_{s}COOOH + C_{0}H_{0} \stackrel{h_{0}}{\rightleftharpoons} [CH_{s}COOOH \cdot nC_{0}H_{0}] \stackrel{h_{1}}{\rightarrow} C_{0}H_{0}O + CH_{s}COOH$$
 (1.)

$$CH_{a}C \xrightarrow{O} + C_{a}H_{6} \rightarrow CH_{a}C \xrightarrow{O} O \xrightarrow{CH_{3}} \rightarrow CH_{5}C \xrightarrow{O} O \xrightarrow{CH_{3}} CH_{6}$$

$$CH_{5}C \xrightarrow{O} + RH \rightarrow CH_{5}COOH + R$$

$$CH_{5}C \xrightarrow{O} + RH \rightarrow CH_{5}COOH + R$$

$$(2)$$

To determine whether reaction (1) or (2) prevails, experiments were carried out in which an inhibitor (ionol) which reacts with free radicals was added to the reaction mixture at the moment corresponding to

Card 2/4

ACC NR: AP6032585 the maximum rate of formation of propylene oxide. On addition of the inhibitor, acetaldehyde consumption and reaction product accumulation virtually ceased; propylene oxide concentration increased only slightly. This indicates that propylene oxide is formed mainly via free radicals (reaction (2)). To determine the contribution of reaction (1), experiments involving the reaction of peracetic acid with propylene were carried out; the rate of formation of propylene oxide was found to be about 15% of its maximum rate of formation in the reaction of interest. It was concluded that the principal epoxidizing agent in the combined oxidation of unsaturated compounds and aldehydes is the acetyl peroxide radical, RC=00; rather than the corresponding peracid. It was also postulated that propylene glycol is formed via the isomerization of the complex intermediates formed in reactions (1) and (2): or : CHOCOCH. (3) RH Card 3/4

#### "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041211

ACC NR. AP6032585

Thus the reactions of formation of propylene oxide and propylene glycol monoacetate represent an alternate course of the chain propagation reaction, which is simultaneous to the reaction RO<sub>2</sub> + acetaldehyde. This paper represents P. I. Valov's dissertation. Orig. art. has:

SUB CODE: 07,21/ SUBM DATE: 03Feb66/ ORIG REF: 005/

OTH REF: 001

Card 4/4

#### "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041211

ACC NRI AP6011689

SOURCE CODE: UR/0063/66/011/002/0186/0195

AUTHOR: Emanuel', N. M. (Corresponding member AN SSSR)

ORG: none

TITLE: Free-radical elementary processes in chain reactions of liquid phase oxidation

SOURCE: Vsesoyuznoye khimicheskoye obshchestvo. Zhurnal, v. 11, no. 2, 1966, 186-195

TOPIC TAGS: free radical, oxidation, chain reaction, reaction mechanism, liquid phase oxidation, oxidation kinetics

ABSTRACT: On the basis of a number of studies in the Soviet Union and abroad, a schematic diagram of oxidation of hydrocarbons and other organic substances and the role of free radicals in these chain reactions have been established. The rate constants for elementary processes were determined for a number of chain reactions. Investigations conducted at the Institute of Physical Chemistry AN USSR provided new data for supplementing the conventional chart of liquid-phase oxidation with additional elementary reactions and have made it possible to establish

Card 1/2

UDC: 539, 175

# ACC NR: AP6011689

their chemical mechanism in both the initial and in their advanced stages. The present paper describes the elementary processes involved in the mechanism of these reactions. They include: formation of free radicals at the chain-initiation stage, formation of intermediate peroxide compounds, the role of hydrogen bonds in the decomposition of hydroperoxides into radicals, formation of free radicals during decomposition of intermediate substances of nonperoxide nature, formation of radicals in catalytic oxidation of hydrocarbons, radical interaction with hydroperoxides and alcohols, isomerization and decomposition reactions of a peroxide radical, addition of radicals to double bonds, chain termination in liquid-phase oxidation, and the effect of polarity of the medium on the rate constants of radical reactions. The author regards this study as another phase in the theory of degenerate-branched reactions and of the mechanism of liquid-phase oxidate as a contribution to the prospective general theory of chain processes. Orig. art. has: 8 diagrams, 4 tables, and 42 formulas.

SUB CODE: 07/SUBM DATE: none/ORIG REF: 042/OTH REF: 016/

Card 2/2

ACC NR. AP6032114

SOURCE CODE: UR/0301/66/012/005/0452/0455

AUTHOR: Kukushkina, G. V.; Gorbacheva, L. B.; Emanuel', N. M.

ORG: Institute of Chemical Physics, Academy of Sciences SSSR (Institut khimicheskoy fiziki AN SSSR)

TITLE: Inhibition of the biosynthesis of protein and nucleic acids by phenolic compounds in vivo

SOURCE: Voprosy meditsinskoy khimii, v. 12, no. 5, 1966, 452-455

TOPIC TAGS: biochemistry, biosynthesis, protein synthesis, nucleic acid, medicic acid, medicic, phenol derivative, metabolic effect, ionole

ABSTRACT: In vivo experiments on mice affected with Erlich ascites tumor and hepatoma XXII showed that the phenol derivatives propyl-

gallate and ionole (4-methyl-2,6-di-tert-butyl-phenol) inhibited protein and nucleic acid synthesis in some organs and tissues. Propylgallate did not affect protein biosynthesis in normal kidney tissue but was effective against cancerous tissue. A 200 mg/kg dose of ionole suppressed uptake of C<sub>14</sub> labeled amino acids almost completely. Further experiments showed that the cellular nucleic acid fractions from cancerous cells were the most sensitive to the action of these compounds. [WA-50; CBF No. 12]

SUB CODE: 06/ SUBM DATE: 19Nov64/ ORIG REF: 014/ OTH REF: 002/
Card 1/1 UDC: 615.778.1-092:612.015.348-064+616.015:348.014.46-064:65.778.1

SOURCE CODE: UR/0062/66/000/008/1334/1339

AUTHOR: Valov, P. I.; Blyumberg, E. A.; Emanuel', N. M.

ORG: Institute of Chemical Physics, Academy of Sciences, SSSR (Institut khimicheskoy fiziki Akademii nauk SSSR)

TITLE: Kinetics and mechanism of the combined oxidation of propylene and acetaldehyde

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 9, 1966, 1334-1339

TOPIC TAGS: combustion modifier, oxidation mechanism, free radical, oxidation inhibitor, oxidation limites, actalabase, olific

ABSTRACT: A study has been made of the kinetics and mechanism of the combined oxidation of an olefin and an aldehyde. This reaction was previously shown to be a step common to the mechanisms of oxidation of unsaturated hydrocarbons and of the combined oxidation of olefins and organic compounds of various classes. The reagents used were acetaldehyde, propylene, and air. The reaction was carried out in a special stainless steel autoclave at 70—80C and 50 atm. Under these conditions the reaction proceeds in the liquid phase. Reaction products were subjected to chemical and gas-liquid chromatographic analysis. It was

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UDC: 541.124+542.943

#### ACC NR: AP6032585

found that propylene oxide and acetic acid are the end products of the reaction; propylene glycol monoacetate is formed along with the propylene oxide. This was confirmed by control experiments in which some propylene oxide was added to the initial reagents. A reaction mechanism was postulated for the formation of propylene oxide:

$$CH_{\bullet}COOOH + C_{\bullet}H_{\bullet} \xrightarrow{A_{\bullet}} [CH_{\bullet}COOOH \cdot nC_{\bullet}H_{\bullet}] \xrightarrow{A_{\bullet}} C_{\bullet}H_{\bullet}O + CH_{\bullet}COOH$$

$$CH_{\bullet}COOOH + C_{\bullet}H_{\bullet} \xrightarrow{A_{\bullet}} [CH_{\bullet}COOOH \cdot nC_{\bullet}H_{\bullet}] \xrightarrow{A_{\bullet}} C_{\bullet}H_{\bullet}O + CH_{\bullet}COOH$$

$$CH_{\bullet}COOOH + C_{\bullet}H_{\bullet} \xrightarrow{A_{\bullet}} [CH_{\bullet}COOOH \cdot nC_{\bullet}H_{\bullet}] \xrightarrow{A_{\bullet}} C_{\bullet}H_{\bullet}O + CH_{\bullet}COOH$$

$$CH_{\bullet}COOOH + C_{\bullet}H_{\bullet} \xrightarrow{A_{\bullet}} [CH_{\bullet}COOOH \cdot nC_{\bullet}H_{\bullet}] \xrightarrow{A_{\bullet}} C_{\bullet}H_{\bullet}O + CH_{\bullet}COOH$$

$$CH_{\bullet}COOOH + C_{\bullet}H_{\bullet} \xrightarrow{A_{\bullet}} [CH_{\bullet}COOOH \cdot nC_{\bullet}H_{\bullet}] \xrightarrow{A_{\bullet}} C_{\bullet}H_{\bullet}O + CH_{\bullet}COOH$$

$$(2)$$

To determine whether reaction (1) or (2) prevails, experiments were carried out in which an inhibitor (ionol) which reacts with free radicals was added to the reaction mixture at the moment corresponding to

Card 2/4

#### ACC NR: AP6032585 the maximum rate of formation of propylene oxide. \ On addition of the inhibitor, acetaldehyde consumption and reaction product accumulation virtually ceased; propylene oxide concentration increased only slightly. This indicates that propylene oxide is formed mainly via free radicals (reaction (2);. To determine the contribution of reaction (1), experiments involving the reaction of peracetic acid with propylene were carried out; the rate of formation of propylene oxide was found to be about 15% of its maximum rate of formation in the reaction of interest. It was concluded that the principal epoxidizing agent in the combined oxidation of unsaturated compounds and aldehydes is the acetyl peroxide radical, RC=00; rather than the corresponding peracid. It was also. postulated that propylene glycol is formed via the isomerisation of the complex intermediates formed in reactions (1) and (2): CH,OH CHOH or CHOCOCH. CH<sub>2</sub>OCOCH<sub>2</sub> (3) CHa-CHA **СН.ОСОСН** CH'OH, 3/4 Card

ACC NR: AP6032585

Thus the reactions of formation of propylene exide and propylene glycol monoacetate represent an alternate course of the chain propagation reaction, which is simultaneous to the reaction RO<sub>2</sub> + acetaldehyde. This paper represents P. I. Valov's dissertation. Orig. art. has: 4 figures. [WA-68]

SUB CODE: 07,21/ SUBM DATE: 03Feb66/ ORIG REF: 005/

OTH REF: 001

# EMANUILOVA, E.

The effect of certain amino acids on the biosynthesis of vitamin B<sub>12</sub>. Dokl Bolg. akad. nauk 18 no.7:651-654 '65.

1. Submitted March 24, 1964.

RABOV St.; EMANUILOV, Emanuil; PEICHEV, Veselin

Electric parameters of some compensation and bridge speech systems of the TsB telephone apparatus. Godishnik mash elekt 12 no. 2:107-120 '62 [publ. '63].

KHALACHEV, V.I.; IVANOV, V.P.; EMANUILOV, E.G.

Experimental determination of optimum values in the resistances of electroacoustic transformers of the MB-type telephone apparatus. Godishnik mash elekt 13 no.2:131-140 '63 [publ. '64]

EMANUILOV, Ignat.

Veterinary and sanitation expert testimony concerning milk and dairy products. Sofiia, 1955. 284 p. (Obshtiia fonda za podpomagane na studentite ot visshite uchebni zavedenii v Bulgariia, no. 44)

EMANUILOV, Ignat.

Veterinary and public health advice on the storage of animal produces. Sofiia. Kamara na narodnata kultura. Sektsiia Nauka i izobretenie, 1946, 428 p.

DAFM

RMANUILOW Isnat, prof.; NACHNY, Liubomir

Antibiotic properties of cheese. Isv. mikrob. inst., Sofia Vol.4: 33-39 1953.

1. Chlen-kor. na BAN (for Mmanuilov) 2. Chlen-kor. asistent vuv Vt Veter. med. fakultet (for Machev) (NIIK.

cheese, antibiotic properties)
(ANTIBIOTICS,
cheese antibiotic properties)

EMANUILOV, Ignat, Chlen-kor. prof.; NACHEV, Liubomir, ml. nauch. sutr.;

Antagonism of microflora in sheep cheese whey. Izv.mikrob.inst., Sofia 5:69-95 1954. (MILK,

whey, bact. antag. in)

EMANUTION, IGNAT

Veterniarmo-sanitarma edspertiza na khranitelnite produkti of zhivotinski proizkhod.

2. ezd. Dofiia, Zemizdat, 1956. 421 p. (Veterinary and sanitary inspection of food products of animal extraction. 2d ed.) DA Not in DLC.

Bulgaria

SO: Monthly Index of East European Accessions (EEAI) LC Vol 7, no 1 Jan 1958

PMANUILOV, Ignat, chl., kor., prof. 「おおおからなるには、本のでは、これのはないないないないのである。 Louis Pasteur; 60th anniversary of his death. Izv. mikrob. inst., Sofia 7:128-140 1956. (BIOGRAPHIES, Pasteur, Louis (Bul))

F Microbiology. Antibiosis and Symbiosis. Antibiotics. Country category Ref Zhur-Biol., No 23, 1958, No 103751 Abs. Jour Yemanuilov, Ignat; Nachev, Lyubomir Author : Bulgarian Academy of Sciences Investigation of the Antibiotic Activity of the Institut. Picroflora of Bulgarian Sour Milk Title : Izv. Otd. biol. i med. mauki, B'lg AN, Ser. eksperim. Orig Pub. biol. i med., 1957, No 1, 73-86 : It has been established that there is an in vitro inhilities of the growth of intestinal microflora of domentic Abstract animals, viz., Glostridium sporogenes, Bacillus mycoides Bacterium proteus vulgaris, Staphylococcus albus, Bacillus mesenterious, Bacterium coli and Bacillus megatherium, by antibiotic substances formed by the bacteria of Bulgarian sour milk (Bacterium bulgarioum, Streptococcus thermophilus). The antibiotic substances are destroyed by heating at 80° for 15 minutes, but are inactivated by neutralization (at a pH of 7.0). Lactic acid in the concentration contained in clotted milk does not depress the growth of B. mesentericus or B, coli but depresses the growth of the others Card: 1/2

#### EMANUILOV, Ign.; NACHEV, L.

Vitamin  $B_{12}$  content in sheep milk cheese. Isv. Mikrob. inst., Sofia no.8: 9-11 1957.

1. Chl. kor. prof. (for Emanuilov). 2. ml. n. sutrudnik (for Nachev).

(VITAMIN B., determ.

in sheep milk cheese (Bul))

(MIIK,

sheep milk cheese, vitamin B<sub>12</sub> determ. (Bul))

BULGARIA/Antibiosis and Symbiosis - Antibiotics.

Abs Jour : Ref Zhur Biol., No 1, 1959, 755

Author : Emnuilov, Ignol

Inst : Microbiological Institute of Bulgarian Academy of Scien-

ces

Title : Comparative Studies of the Presence of Free Amino Acids

in Samples of Drinza Cheese Prepared with Dacterial

Protease and With Chymnosin

Orig Pub : Izv. Mkrobiol. in-t. D"lg. AN, 1957, 8, 59-76

Abstract : No abstract.

EMANUILOV, In. Prof.; NACHEV, L., 201. n. sutrudnik.

Vitamin B<sub>12</sub> content in the Bulgarian sour milk (joghurt) yoghurt). Izv. Mikrob. inst., Sofia no.8:283-290 1957.

1. Chl.-kor. (for Emanuilov).

(VITAMIN B<sub>12</sub>m determ.

in yoghurt)

(MILK

vitamin B<sub>12</sub> determ. in yoghurt)

Microbiological Inst.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86

CIA-RDP86-00513R00041211(

BULGARIA/Antibiosis and Symbiosis - Antibiotics.

Abs Jour : Ref Zhur Biol., No 1, 1959, 756

Author

: Emanuilov, I.

Inst

: Microbiological Institute of Bulgarian Academy of Scien-

Title

: Vitamin  $\mathbf{B}_{12}$  Content of Brinza Cheese

Orig Pub : Izv. Mikrobiol. in-t. B"lg. AN, 1957, 8, 309-311

Abstract : No abstract.

Card 1/1

- 17. -

# EMANUILOV, Ignat (Sofiia)

Successes and forthcoming problems of the Bulgarian biology. Spisarie BAN no.4:36-47 \*59. (KEAI 9:11)

1. Chl.kor., Bulgarska akademia na naukite (Bulgaria--Biology)

EMANUILOV, I.

EMANUILOV, I. Formation of proteolytic ferments (peptidases) from bacteria. In German. p. 71 Vol. 9, no. 1, Jan./Mar. 1956 DOKLADY., Sofiia, Bulgaria.

SOURCE: East: European Accessions List (EEAL) Vol. 6, No. 4 April 1957

# Studies on the relationship between bacteria and ascaris in intestinal parasitocenosis in swine and horses. Izv. Mikrob. inst., Sofia no.9: 61-71 1958. (INTESTINES, microbiology, bact. parasitocenosis with ascaris in swine & horses (Bul)) (ASCARIS, parasitocenosis with intestinal bact. in swine & horses (Bul))

Studies on bacteria synthetizing vitamin Bl2. Izv. Mikrob. inst., Sofia no.9:73-83 1958.

(VITAMIN Bl2, metabolism, bact. synthesis (Bul))

(RACTERIA.

vitamin Bl2-synthetizing strains (Bul))

BULGARIA/Human and Animal Physiology (Normal and Pathological)
Metabolism. Vitamins.

- 33

Abs Jour : Ref Zhur Diol., No 6, 1959, 26382

Author : Yemmuylov, Ignat

Title : Vitamin D<sub>12</sub>

Orig Pub : Priroda (Dolg.), 1958, 7, No 2, 18-21

Abstract : No abstract.

Cord 1/1

# EMANUILOV, I

Investigating the interrelationships of bacteria and ascarids in intestinal parasitocoenoses of swine and horses. Izv.AN SSSR.Ser.biol. no.2:228-234 Mr-Ap 59. (MIRA 12:5)

1. Institute of Microbiology, Academy of Sciences, Sofia, Bulgaria.

(ASCARIDS AND ASCARIASIS) (INTESTINES—BACTERIOLOGY)
(PARASITES—SWINE) (PARASITES—HORSES)

### EMANUILOV. Igapt

Forthcoming International Conference on Vitamins in Bulgaria.

Spisanie BAN 5 no.3:32-36 '60. (KEAI 10:5)

1. Chl.-kor. (VITAMINS)

## MEMANUILOV, I.

Studies on cellulose bacteria synthesizing vitamin B<sub>12</sub>. Mikrobiologii 30 no.2:308-314 Mr-Ap \*61. (MIRA 14:6)

1. Institut mikrobiologii Bolgarskoy akademii nauk, Sofiya.
(VITAMIN B<sub>12</sub>) (BACTERIA, CELLULOSE\_DECOMPOSING)

EMANUILOV, Ignat, akad.

Problem of heredity and variability in microorganisms. Spinanie BAN 7 no.3:18-38 '62.

1. Chlen na Redaktsionnata kolegiia, "Spisanie na Bulgarskata akademiia na naukite".

### EMANUYLOV, Ignat, akad.

The 2d International Symposium on the Uninterrupted Cultivation of Microorganisms. Spisanie BAN 7 no.3:64-67 '62.

1. Chlen na Redaktsionnata kolegiia, "Spisanie na Bulgarskata akademiia na naukite".

を からの

RMANUILOV, Ign.; NACHEV, L.; GESHEVA, R.; DAOV, T.; VELCHEVA, P.; MUTAFCFITEVA, S.

Studies on the effect of some factors on the biosynthesis of vitamin B<sub>12</sub> in silt. Izv. microbiol. inst. 15:53-58 163

EMANUILOV, Ign.; VELCHEVA, P.; NACHEV, L.; TOSHKOV, As.; SHIROVA, L.

Studies on the chemical composition and antibacterial and antitoxic properties of royal jelly. Izv. microbiol. inst. 15:89-95 \*63

EMANUILOV, Ign., akad.

Academician Asen I. Khadzhiolov at sixty. Priroda Bulg 12 no. 1: 101-103 Ja-F 163.

 Zam. gl. redaktor i chlen na Redaktsionnata kolegiia, "Priroda".

Vitamin B<sub>12</sub> in the tissue of cattle. Doklady BAN 16 no.7: 773-776 \*63.

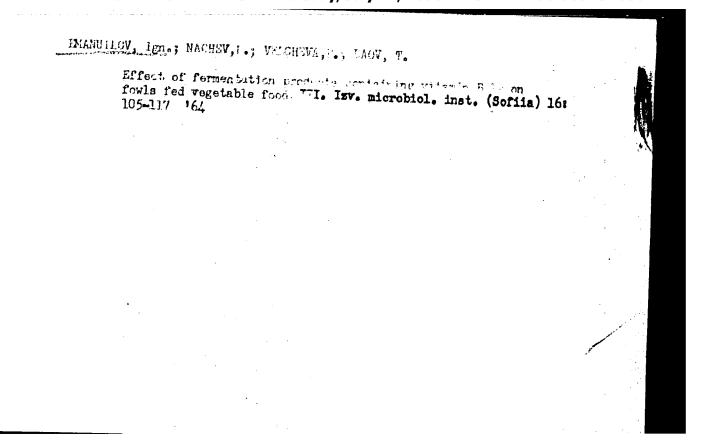
# EMANUILOV, Ignat, akad.

Trends in the development in biology. Spisanie BAN 9 no. 1/2: 71-76 '64.

EMANUILOV, Ignat, akad.

Two decades of Bulgarian biology. Priroda Bulg 13 no.4:12-16 J1-Ag '64.

# "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041211



# EMANUILOV, Ignat, akad.

Prof. Dr.Stefan Angelov, Member of the Bul rian Academy of Sciences; February 28, 1878-October 1, 1964; obituary. Priroda Bulg 13 no.6:115-116 N-D '64.

EMANUILOV, Ign.; NACHEV, L.; VELCHEVA, P.; DAOV, T.; TOSHKOV, A.; VUICHANOV, V.; SHIROVA, L.

Effect of fermantation products containing Vitamin B 12 on fowls fed vegetable food. II. Izv. mikrobic l. inst. (Sofiia) 16:91-104 \*64

30177-66 ACC NRI AP6020311

BJ/0011/65/018/007/0651/0654

AUTHOR: Emanuilova, E.

ORG: Microbiological Institute, BAN. Sofia

TITIE: Effect of certain amino acids on the biosynthesis of vitamin B sub 12

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 7, 1965, 651-654

TOPIC TAGS: amino acid, biosynthesis, vitamin, microbiology

ABSTRACT: Microorganisms contain metabolic pools of nucleotides and amino acids which are on the main line of synthesis of macromolecules. A study of the effect of amino acide or procursors exogeneously supplied to microorganisms on the biosynthesis of macromolecules, including vitamin B12 compounds, should throw some light on the action of the mochanisms which govern these syntheses. Consequently, the author investigated the effect of certain amino acids as the only source of nitrogen in a nutrient medium on the biosynthesis of vitamin B12 and the growth of Azotomonas sp. kept on agar. Tabulated and other results present the effects of 11 amino acids over periods of 24 to 96 hours. This paper was presented by Academician I. Emanuiloff on 24 March 1964. Orig. art. has: 4 figures and 2 tables. [Orig. art. in Eng.] [JPRS]

SUB CODE: 06 / SUEM DATE: 24Mar65 / OTH REF: 005

APPROVED FOR RELEASE: Thursday, July 27, 2000

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# "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041211

KUNKIN, Ya.A.; BAL'SHIN, V.G.; BARANNIK, Yu.P.; EMAYKIN, A.I.

Diamond grinding of small high-speed reamers. Mashinostroitel'
no.10:20-21 0 '64. (MIRA 17:11)

BRODSKAYA, Ye.A.: EMAYKINA, V.P.: KOSTRITSA, A.G. (Kiyev)

Treating dysentery in experimental radiation sickness. Med.rad. 4
no.1:82 Ja '59.

(RADIATION SICKNESS) (DYSENTERY)

EMAYKINA, V.P.; LEHEDEVA, O.P. (Kiyev)

Some data on the effect of lowered barometric pressure on the course of influenza in irradiated mice. Med.rad. 4 no.1:82 (MIRA 12:2)

Ja '59.

(INVIUENZA) (RADIATION SICKNESS) (ATMOSPHERIC PRESSURE—PHYSIOLOGICAL EFFECT)

### EMAYKINA, V.P. (Kiyev)

Tree and the same

Morphological characteristics of the course of influenza in chronic radiation in Tary. Arkh. pat. no.1:54-60 64.

(MIRA 17:11)

1. Iz patomorfologicheskoy laboratorii (zav. - prof. N.A. Maksi-movich) Instituta infektsionnykh bolezney Ministerstva zdravockhraneniya UkrSSR (dir. - chlen-korrespondent AMN SSSR prof. I.L. Bog-danov).

# EMAYKINA, V.P. (Kiyev)

Morphological changes in the lungs of irradiated mice following infection with influenza. Sbor.nauch.trud. Inst.infek.bol. no.4:104-109 164.

MAKSIMOVICH, Nina Aleksandrovna; BOTSVAN, Nikolay Yemel'yanovich; EMAYKINA, Vera Petrovna; BARCHTEYN, Yu.A., red.

[Pathomorphological changes in influenza and cytologic diagnosis] Patomorfologicheskie izmeneniia pri grippe i diagnosis] Patomorfologicheskie izmeneniia pri grippe i kiev, Zdorovia, 1965. 161 p. tsitologicheskaia diagnostika. Kiev, Zdorovia, 18:9)

BCZZAY, La ta da, dr. W.-ne; BARDOS, Vera, dr., dr. F.-ne; EMBER, Erika, dr. dr. M.-ne; RUDAS, Lenke, dr., dr. SZ.-ne.

Problems of supplying the members of collective farms with denter prostheses in the district of Sellye. Fogorv. szemle 58 no.5:129-135 My '65

1. A Pecsi Orvostudomanyi Egyetem Stomatologiai Klinikajarol (Igazgato: Schranz, Denes, dr., egyetemi tanar).

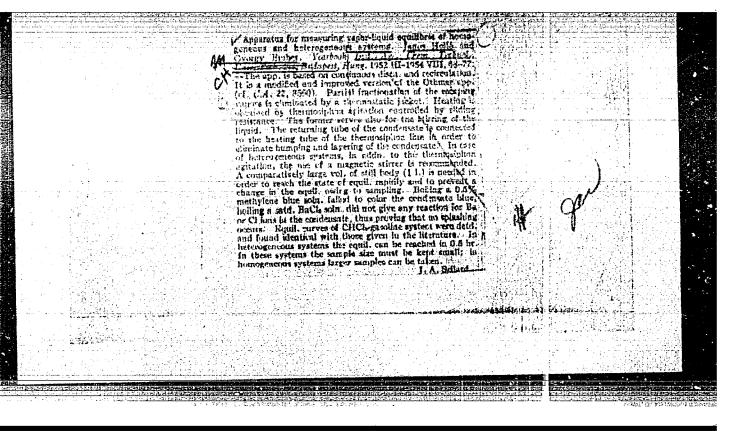
### EMBER, Gabor

Food industry machines and installations at the 1964 Leipzig Spring Fair. Elelm ipar 18 no. 5: 149-158 My '64.

1. Technical Department, Ministry of Food, Budapest.



### "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041211



В

EMBER, 6.

HUNGARY / Physical Chemistry. Thermodynamics. Thermo-

chemistry. Physico-Chemical Analysis. Phase

Transition.

Abs Jour: Ref Zhur-Khimiya, No 11, 1958, 35368

: Hollo Janos, Ember Gyergy, Lengyel Tamas, Wieg Author

Andras

: Magyar Tud. Akad. Inst

: Investigation of the Equilibrium of Vaporous and Liquid Phases of the Quaternary System Ethanol-Title

Heptane-Toluene-Aniline.

Orig Pub: Kem. Tud, Oszt. Kozl., 1957, 8, No 4, 449-475

Abstract: The equilibrium of the quaternary system ethanol (I) -heptane (II)-toluene (III)-eniline (IV) has been experimentally and theoretically investigated. A device for the determination of the liquid-vapor equilibrium is described. The Margules and Van Laar

card 1/3

В

HUNGARY / Physical Chemistry. Thermodynamics. Thermochemistry. Physico-Chemical Analysis. Phase

Transition.

Abs Jour: Ref Zhur-Khimiya, No 11, 1958, 35368

Abstract: equation constants have been determined for the systems I=II, I=III, II=IV. These equations are not applicable to the highly asymetric systems I=IV, III=IV and II=IV. The complete equilibrium curve for the systems I=IV, III=IV has been plotted in accordance with the experimental data with the aid of the Sketcherd-Hamer equation. Only the Margules equation can be applied in calculating the quaternary system. The Margules constant for the II=IV system has been determined by the indirect Carlson-Coburn method (axcording to the satu-

Card 2/3

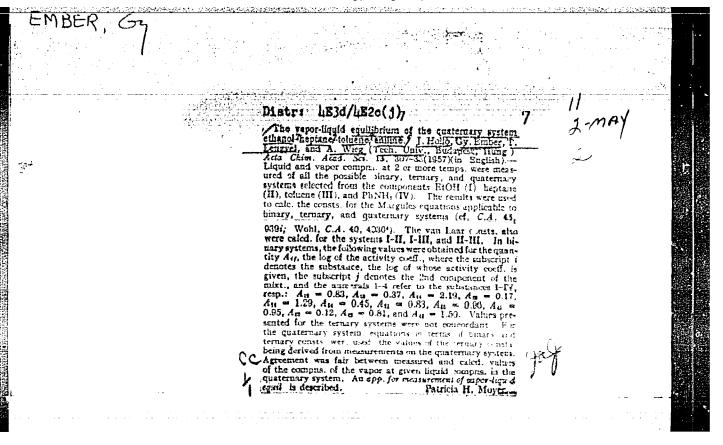
HUNGARY / Physical Chemistry. Thermodynamics. Thermochemistry. Physico-Chemical Analysis. Phase Transition.

В

Abs Jour: rated vapor isotermic pressure-composition relation). Various possibilities of calculating the equilibrium of the quaternary system are discussed. A new calculating method, developed by the authors is reported. It consists in the following: the constants indispensable to the calculation and pertaining to triternary systems, have been calculated from the experimental measurements of the quaternary system equilibrium data, with the application of an equation, containg activity coefficient logarithms. Although the new method calls for the conducting of one measurement for the quaternary system, it eliminates the measuring and calculating of triternary systems. The method is simple and produces

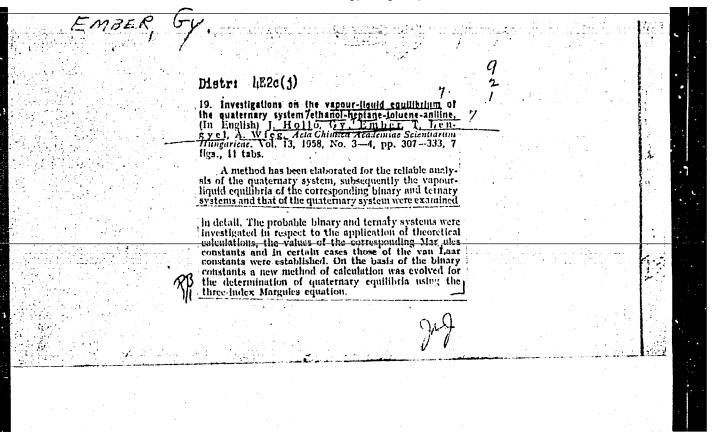
Card 3/3

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## "APPROVED FOR RELEASE: Thursday, July 27, 2000

### CIA-RDP86-00513R00041211



**APPROVED FOR RELEASE: Thursday, July 27, 2000** 

CIA-RDP86-00513R00041211(

S/194/62/000/006/007/232 D222/D309

AUTHOR:

Ember, György

TITLE:

Electronic pulse-counter and storage circuit

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 6, 1962, abstract 6-1-58 t (Magyar tud. akad. közp. fiz. kutató int. közl., 1961, 9, no. 1-2, 87-98)

TEXT: The possibilities which have not yet been utilized for the construction of electronic pulse-counter and storage circuits are discussed. As a result of experimental work it was found that the DC state-indicators can be advantageously replaced by AC indicators when frequency and phase are utilized, and it becomes possible to construct more economical counter circuits. The results of the experiments are given. 7 figures. [Abstractor's note: Complete translation.

Card 1/1

EMBER, Kalman, dr., okleveles tanyamernok; VEKENY, Henrik, okleveles banyamernok

Dust measuring system in Hungarian mines; tasks of its development and the achievements obtained on the basis of dust measuring data. Bany lap 97 no. 2:87-92 F 164.

EMBER, Kalman, dr.; PALOVICS, Pal; DOBOS, Gyorgy, dr.; ELES, Laszlo; GAGYI Palffy, Andras, dr.; RADO, Aladar; SAFAR, Laszlo; SERFOZO, Ivan

Report on the Executive Committee session of the National Hungarian Mining and Metallurgical Society, Inota, December 7, 1963. Bany lap 97 no. 2:133-140 F 164.

- 1. Orszagos Magyar Banyaszati es Kohaszati Egyesulet alelnoke (for Ember).
- 2. "Banyaszati Lapok" szerkeszto bizottsagi tag a (for Gagyi Palffy and Rado).

AEKOS, Frigyes; EFEER, Kalman, dr.

Executive Committee session of the Eurgarian National Manage and Metallurgical Society. Koh lar 97 no. 2007-64 5 164.

1. Editor-in-Chief, "Kchaszati Lapok", Endagest (for Arket).
2. Vice-President, Hungarian Association of Hungarian Associ

# EMBER, Karoly

Protection of thermal waters in Budapest. Hidrologiai koulony 40 no.1:88 F '60.

1. "Hidrologiai Kozlony" szerkeszto bizottsagi tagja.

SZELL, Istvan, dr.; EMBER, Magda, dr.; NOVAK, Erna, dr.

Treatment of trichomonal vaginitis with imidazole derivate. Magy.noorv.lap. 26 no.5:313-320 S '63.

1. A Szegedi Orvostudomanyi Egyetem Koi Klinikajanak (Igszgato: Szontagh Ferenc dr. egy. tanar) es A Szeged Varosi Közegeszsegügyi-Jarvanyügyi Allomas parasitelogiai laboratoriumanak Közlemenye (Igazgato: Vetro Janos dr. föorvos).

EMBER, Magda

HUNGARY

ENUME. Maids, Dr. SZELL, Istvan, Dr. Szeged Town Public Hoelth and Epidemiological Station, Parazitological Laboratory (Szeged Varoei Kozegeszcegugyi-Jarvanyugyi Allamas, Parazitologiai Laboratorium) and Medical University of Szeged, Obstetrical and Gynecological Clinic (Szegedi Gryostudomanyi Egyetem, Szuleszeti es Megyogyaszati Klinica)

"The Prevalence of the Trichomoras and Candida Enfection of the Vagina."

Budapest, Orvosi Hetilap, Vol 104, No 5, 3 Feb 63, pages 202-205.

Abstract: [Authors's summary modified] 1269 women were tested for triclosures, 1/06 for candida infection of the vagina. Trichomonas infection
and found in 47 percent (61 percent of the pregnant women), candida
infection was 11 percent. The highest incidence of infection was found
around fifty years of age. The incidence of candida infections, although
lower, was found to be proportional to that of trichomonas distribution.
[9 destern, 7 Hungarian references]

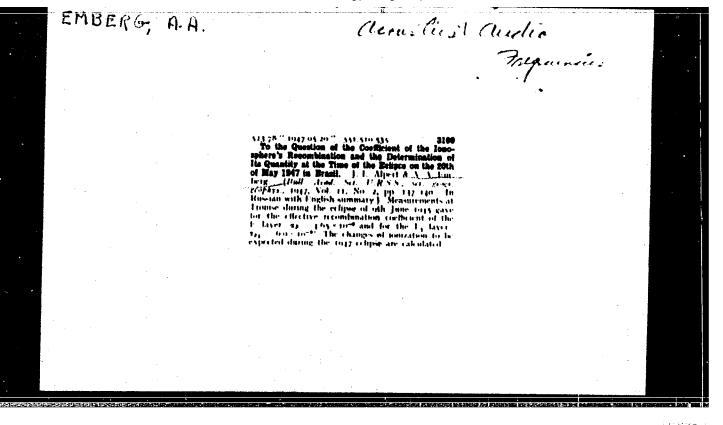
1/1

EMBER, Mihaly

Rebuild of machine parts. Mezogazd techn 1 no.3:18 '61.

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041211



EMBERGER O.Vliv opozdeneho zpracovavani stolic na spolehlivost bakteriologicke

diagnostiky salmonellos The influence of delayed handling of stools on the reliability of bacteriological diagnosis of salmonella infections Casopis Lakaru Ceskych 1947, 86/3 (81-88) Graphs 9

Known positive stools from typhoid patients and stools artifically infected with Salmonella Para-B. were kept for up to 14 days at different temperatures (22° C, 10° C, and 5° C). The number of colliforms and pathogens per gram of stool was calculated from samples taken daily, by plating suitable dilution of Endo's plates. For isolation of the pathogens Kauffmann's medium was also used. It was found that the maximal concentration of coliforns depends on the nutritional quality of the stool. The number of pathogenic organisms present in the fresh stool undergoes three kinds of changes. First: it remains stationary for a few days and dedlines slowly afterwards, secondly: it declines rapidly, and thirdly: it increases slightly but never as much as that of coliforms. Which of these changes takes place will depend on the type of pathogen, on the strain itself, on the antagonism of coliforms present and on the presence or absence of bacteriophage. The probability of a successful isolation of the pathogenic organism will then depend: (1) on the kind of change the number of pathogens undergoes and on the increase in number of coliforms. Both these changes are dependent on the temperature under which the sample of stool is kept; (2) on the absolute number of pathogens in the sample; (3) on the bacteriological methos used. Evidence is presented that even with the use of Kauffmann's medium the probability of isolating S. typhosum from a nositive since bent at room temperature declines rapidly from 60 per cent on the caecond day to 50 per cent on the fourth day. Stool samples with S.para-B. kept under similar conditions

Page II
yielded 80 per cent positive cultures even two weeks after collection. The author
therefore concludes that it is most essential that stool specimen be examined as soon
as possible after collection.

Traub-Brooklyn

So: Medical Microbiology and Hygiene, Section Iv, Vol. 1, #1-6

#### "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041211

COUNTRY

: Czechoslovakia

H-28

CATEGORY

ABS. JOUR. : AZKhim., No.

1959, No. 88230

AUTHOR

Emberger, 0.

INST. TITLE

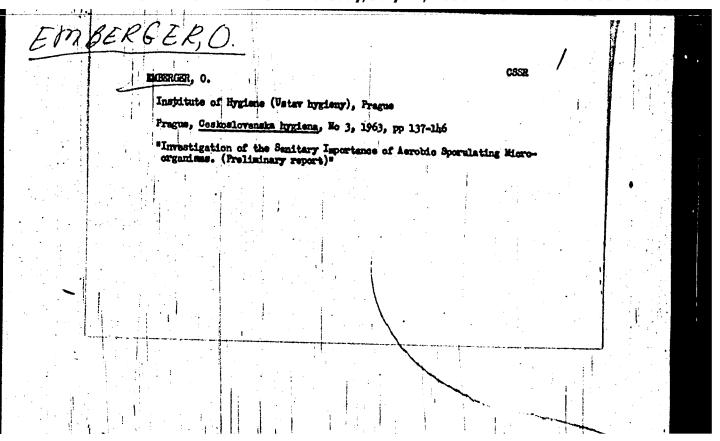
:Disinfection Problems in the Food Industry

ORIG. PUB.: Prumysl potravin, 1959, 10, No 1, Pril.:

Desinf. potravin. prumyslu, 12-17

ABSTRACT: A review. Classification of microorganisms which contaminate food products, and avenues of infection are considered. Procedures of disinfection of equipment, premises and personnel are described.

CARD:



E-2

BULGARIA/Solid State Physics - Solid State Theory

Abs Jour : Ref Zhur - Fizika, No 1, 1959, No 785

Author : Embersleben Otto

Inst -

Title : Linear Relations Between the Madelung Constants

Orig Pub : Izv. Matem. in-t. B"lg. AN, 1957, 2, No 2, 87-120

Abstract: The author considers the Madelung constants of the crystalline structures of the type NaCl, CsCl, ZnS, and CaF2. It is shown that there exists between the Madelung constants of these structures certain linear relations with integer coefficients, and only two Madelung constants are independent. Each of the Madelung constants can be expressed in terms fo two Einstein functions. A method is developed for the numerical calculations of the values of the functions. The values of the Madelung constants for the above structures are given with 12 (or more) significant figures.

M.A. Krivoglaz

Card : 1/1

EMBERGER, O.; HRUBY,S.; MARESOVA, P.; Technicka spoluprace: KRALOVA,Z.; UZLOVA,J.

The man and the intestinal microflora. Cesk. hyg. 10 no.1:39-49 F '65.

1. Ustav hygieny, Praha. Oddeleni hygieny vyzivy lekarske fakulty hygienicke Karlovy University, Praha.

CZECHOSLOVAKIA

# EMBERGER, O; HRUBY, S; MARESOVA, P.

1. Hygiene Institute (Ustav hygieny), Prague; 2. Department of Food Hygiene of the Medical Faculty of Hygiene of Charles University (Oddeleni hygieny vyzivy leharske fakulty hygienicke KU), Prague

Prague, Ceskoslovenska Hygiena, No 1, 1965, pp 39-48

"Man and Intestinal Microflora."

EMBLING, P. - Paliva - Vol. 35, no. 2, Feb. 1955.

Coal gasification into generator and water gas. p. 55.

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955
Uncl.

USSR/Zooparasitology. Ticks and Insects - Vectors of G Causal Organisms. Ticks.

Abs Jour: Ref. Zhur. - Biol., No 23, 1958, 104090

Author: Emchuk, E. M.

Inst : Zoological Institute of Academy of Sciences UkSSR

Title : Material on the Fauna and Ecology of Ixodial Ticks of Krymskaya Oblast.

Orig Pub: Tr. In-tu zool. AN URSR, 1957, 14, 3-17

Abstract: 23 species of ixodial ticks have been recorded in Krymskaya Oblast many of which are found

around definite areas. Wild animals and birds have an important part in the maintenance of the high tick census in the Crimea, particularly

in its mountainous area. - .

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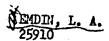
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Tuberculosis

Active pulmonary tonus in clinical pulmonary tuberculosis. Probl. tub. No. 2, 1952.

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SOV/112-57-6-12921

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1957, Nr 6, p 182 (USSR)

AUTHOR: Emdin, L. A..

TITLE: Telemechanics in a Municipal Gas System

(Telemekhanizatsiya gorodskogo gazovogo khozyaystva)

PERIODICAL: V sb.: Telemekhaniz. v nar. kh-ve. M., AS USSR, 1956,

pp 438-456

ABSTRACT: Fundamental requirements for a dispatcher service of a municipal gas system are considered. Two-, three-, and multistage systems of gas distribution are described. The central dispatcher service should secure:

(a) distribution of gas streams among various parts of the system;

(a) distribution of gas are came analysis and provided in the system; (c) redistribution of gas (b) maintaining of specified conditions in the system; (c) redistribution of streams depending on operating conditions or faults; (d) organization of repairs. An organization scheme of the dispatcher service is presented. Telemechanical and communication systems are listed which should be used at the main gas-distributing station, at the gas plant, and at the gasholder stations.

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SOV/112-57-6-12921

Telemechanics in a Municipal Gas System

Block diagrams are presented of the dispatcher's communication between the central dispatcher station and the gasholder station or a network regulating station. Fundamental specifications are considered that are applicable to the telemechanical means for a municipal gas system: (1) telemechanical devices should be designed for only one pair of wires linking the central dispatcher station with each network regulating station; (2) the telemetering cycle should last 2-3 sec; (3) automatic telemetering substations should be used as an intermediary relaying link between the pickups and the receiver at the central dispatcher station; (4) telemetering systems should be equipped with special signaling that would report any faulty condition of the line upsetting normal operation of the system; (5) instead of continuous transmission of all controlled quantities to the central dispatcher station, only deviations from specified conditions should be transmitted, as well as sporadic telemeter indications upon request; (6) a cyclic telemetering system is preferable to a continuous one; (7) telemeter pickups at the network regulating stations should be of an

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